

## STRAUS 4/E THEORY EXERCISES

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**Textbook:** Joseph N. Straus, *Introduction to Post-Tonal Theory*, 4th ed. (New York: Norton, 2016).

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Complete the following *Straus 4/e Theory Exercises*. Check your work using my online *Solution Guide* and bring your questions to class or the next interactive *Q & A Session*. You may also want to use my Web-based apps *PC Polygon Assistant* and *Twelve-Tone Assistant*, especially for computer-aided analysis and composition.

### CHAPTER 1: BASIC CONCEPTS OF PITCH AND INTERVAL

Assignment #	Topic	Exercises	Page(s)
Assignment 1	Pitch & Interval Notation	I-III	18-19
Assignment 2	Interval Types (opi, upi, opci & upci/ic)	IV-VII	20-21
Assignment 3	Interval-Class Vector	VIII	21
Assignment 4	Spacing & Register	IX	22

### CHAPTER 2: PITCH-CLASS SETS

Assignment 5	Normal Form & Transposition ( $T_n$ )	I-II	71-72
Assignment 6	Inversion ( $I$ , $T_n I$ , $I_n$ & $I_n^x$ )	III-IV	72-73
Assignment 7	Prime Form & List of Set Classes	V-VI	74

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### EXAM 1: Ch. 1-2

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### CHAPTER 3: SOME ADDITIONAL PROPERTIES & RELATIONSHIPS

Assignment 8:	Common Tones under $T_n$	I	132
Assignment 9:	Common Tones under $I_n$	II	133
Assignment 10:	Set Class & Symmetry, Z-relation & Complement Relation	III-V	133-134
Assignment 11:	Inclusion Relation (Subsets & Supersets)	VI	134
Assignment 12:	Transpositional Combination, Some Special SCs & CSEGs	VII-IX	135-136

### CHAPTER 5: CENTRICITY & REFERENTIAL PITCH COLLECTIONS

Assignment 13:	Inversional Axis	I	263-264
Assignment 14:	Referential Pitch Collections: DIA (7-35), PENT (5-35), WT (6-35), OCT (8-28) & HEX (6-20)	II	264

### CHAPTER 4: MOTIVE, VOICE LEADING & HARMONY

Assignment 15:	Interval Cycles & Combination Cycles	I-II	199
Assignment 16:	<i>Trans. Voice Leading, Set Class Space &amp; Contextual Inv.</i>	III-V	199-201
Assignment 17:	Triadic Transformations	VI	201

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### EXAM 2: Ch. 3-5

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### CHAPTER 6

#### BASIC CONCEPTS OF TWELVE-TONE MUSIC

Assignment 18:	Basic Operations	I	338-339
Assignment 19:	Subset Structure & Invariants	II-III	339

#### VARIETIES OF TWELVE-TONE MUSIC

Assignment 20:	Combinatoriality (Schoenberg) & Derivation (Webern)	IV-V	340
Assignment 21:	<i>Rotational Arrays (Stravinsky) &amp; Trichordal Arrays (Babbitt)</i>	VI	340-342

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### FINAL EXAM: Ch. 6

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